2010-2011 PROGRESS REPORT

UTC — CARRIER AIR CONDITIONING COLLIERVILLE, TENNESSEE

EPA ID: TND04406222

Prepared for:

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Acronyms and Abbreviations

Carrier Carrier Air Conditioning
bgs below ground surface
cis-1,2 DCE cis-1,2 dichloroethylene
GAC granular activated carbon

gpm gallons per minute

lbs pounds

mg/m³ milligrams per cubic meter

MPA Main Plant Area

NRS North Remediation System O&M operation and maintenance

P&ID process and instrumentation diagram
POTW Publicly Owned Treatment Works
RD/RA Remedial Design and Remedial Action

ROD Record of Decision

scfm standard cubic feet per minute

SSV sub-slab ventilation SVE soil vapor extraction TCE trichloroethylene

TDOT Tennessee Department of Transportation

μg/Kg micrograms per kilogram μg/L micrograms per liter

UAO Unilateral Administrative Order

USEPA United States Environmental Protection Agency

UTC United Technologies Corporation VOCs volatile organic compounds

WP#2 Water Plant #2

WPC Water Pollution Control

XDD XDD, LLC

1.0 INTRODUCTION

This progress report outlines activities undertaken at the United Technologies Corporation (UTC) Carrier Air Conditioning (Carrier) facility located at 97 South Byhalia Road in Collierville, Tennessee (site) pursuant to the Unilateral Administrative Order (UAO) for Remedial Design and Remedial Action (RD/RA). Remedial actions have been implemented at the Carrier site in accordance with the Record of Decision (ROD) issued for the site by the United States Environmental Protection Agency (USEPA) in 1992. This report describes the work conducted and data collected from January 2010 through December 2011. It includes the plans, data, activities, and procedures completed and pending for groundwater and soil remediation at the Carrier Site. The two year time span (2010 and 2011) covered in this progress report is intended to provide continuity with the 2009 EPA Five-Year Review Report [E², Inc., 2010].

The following remediation systems operate at the site:

- The operation of the Town of Collierville's Water Plant #2 (WP#2) contains the
 groundwater plume in the Memphis Sand, and controls exposure through treatment.
 The plant includes two extraction wells with two five-foot diameter air strippers to
 remove trichloroethylene (TCE) and other volatile organic compounds (VOCs) from the
 groundwater.
- 2. The North Remediation System (NRS) extracts TCE and other VOCs from soils impacted by the former lagoon via soil vapor extraction (SVE).
- 3. The Main Plant Area (MPA) SVE system extracts TCE and other VOCs from soils impacted by historical spills near the main plant. The MPA sub-slab ventilation (SSV) system also operates as an additional protective measure to prevent the potential migration of sub-slab VOC vapors into the MPA facility expansion building.

The three remediation systems are shown along with the existing monitoring wells in **Figure 1-1**. The NRS system operated continuously during the 2010-2011 period, with exception of a few temporary shutdowns pending non-routine repairs and maintenance. The MPA system operated



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MONITORING WELL

PUMPING WELL

APPROXIMATE PROPERTY LINE SCALE: As Shown

CHECKED BY: OU

PROJ. MGMT. APPROVAL: BC

TITLE: Active Remediation Systems DATE: May 11, 2011 PROJECT NO.: 73210

CLIENT: UTC — Collierville

DRAWN BY: MAW and Monitoring Wells

NOTE: MONITORING WELL LOCATIONS ARE APPROXIMATE.

DRAWING NO .:

FIGURE 1-1

REV:

B

2010-2011 Progress Report UTC — Carrier Air Conditioning Collierville, Tennessee December 12, 2012

continuously during the 2010-2011 period with the exception of a few temporary shutdowns. pending repairs and/or vapor-phase granular activated carbon (GAC) change-outs.

WP#2 operated continuously during the 2010-2011 period, except for stoppages due to high rainfall events as dictated by the Town of Collierville's Publically Owned Treatment Works (POTW), and routine repairs and maintenance. WP#2 operated at a discharge flow rate of approximately 500 gallons per minute (gpm) into the Town of Collierville's POTW utilizing only the West well.

The background information regarding chromium impacts to WP#2, as well as the MPA system reconstruction activities were discussed in detail in the *2004 Five-Year Review*, prepared on behalf of the USEPA by EnSafe, Inc. (EnSafe) and XDD in 2005, and the *2007-2008 Annual Progress Report*, prepared on behalf of the USEPA by XDD in 2009. The activities undertaken in 2009, were discussed in detail in the 2009 Five-Year Review, prepared on behalf of the USEPA by E², Inc. in 2010.



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2.0 GROUNDWATER

WP#2 has operated continuously since November 2007 utilizing the West well at a flow rate of approximately 500 gpm. Consistent with previous operations, extracted groundwater from WP#2 was treated to remove dissolved phase VOCs using the air stripping towers. The treated water was then discharged directly into the Town of Collierville's POTW instead of the Town of Collierville's potable water supply system. The Town of Collierville has required the discharge of water from WP#2 to go to the POTW while chromium in the discharge water is above the detection limits of 10 micrograms per liter (µg/L). In accordance with the interim agreement with the Town of Collierville, operations were temporarily suspended during high rainfall events to minimize adverse hydraulic impacts at the POTW. Operations are typically restarted 24 to 48 hours after such events.

2.1 Groundwater Monitoring

Throughout the reporting period, groundwater samples were collected as outlined in the *Groundwater Remedy Design Report* (EnSafe, 1994) from existing downgradient off site monitoring wells MW-60 and MW-62, the Town of Collierville's WP#2 West well (influent to the air stripping towers) and from the air stripper's effluent. The air stripper's influent (groundwater from the West well) and the air stripper's effluent were tested quarterly for VOCs. The effluent was also analyzed for total chromium and hexavalent chromium. On-site monitoring wells MW-4, MW-10, and MW-31R were sampled quarterly and analyzed for VOCs, lead, and zinc.

Copies of the laboratory analytical reports for the groundwater sampling performed during 2010 and 2011 are provided in **Appendix A**.

2.1.1 Groundwater Analytical Results from MW-31R

As discussed in the 2006 Annual Progress Report, in July 2006 Carrier installed a new monitoring well, MW-31R, in replacement of well MW-31, which was destroyed by Tennessee Department of Transportation (TDOT) road construction/expansion activities in 2000. MW-31R was installed in the southeast corner of Carrier's property as close to the original location as possible. The approximate location of MW-31R is shown on **Figure 1-1**. The well was



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constructed in a similar manner as MW-31 to monitor groundwater conditions in the perched groundwater above the Jackson Clay and to measure effectiveness of the soil remediation system in place at the MPA.

As discussed previously, MW-31R was sampled quarterly during 2010 and 2011. Results from 2010 and 2011 monitoring are provided in **Table 2-1**. The historical groundwater data from MW-4/MW-10/MW-31, along with the monitoring results of MW-31R were presented in the 2007-2008 Annual Progress Report, prepared on behalf of the USEPA by XDD in 2009. Groundwater TCE concentrations detected at MW-31R from 2010 through 2011 are comparable to historical data from MW-31. Carrier will continue to monitor TCE concentrations in groundwater at MW-31R on a quarterly basis in 2012.



Grou	Indwater Concent		ble 2-1 IW-31R, MW-4, and	d MW-10 (2	010-201:	1)		
Well	Date	Chemicals						
weii	Date	TCE	cis-1,2-DCE	VC	Pb	Zn		
	3/30/2010	3.8	<2	<2	6.7	113		
	6/21/2010	3.7	4.8	<2	4.4	60		
	9/22/2010	3.6	<2	<2	6.8	36.1		
MW-31R	12/20/2010	2.9	2.1	<2	12.4	107		
MW-21K	3/22/2011	3.6	2.1	<2	19.5	133		
	6/29/2011	1.5	1.2	<1	13.2	101		
	9/28/2011	1.5	<1	<1	7.7	105		
	12/18/2011	2.6	3.7	<1	6.7	87.4		
	3/30/2010	1,390	2,160	<50	100	26,400		
	6/21/2010	1,450 a	2,030 a	3.1	27.1	4,640		
	9/22/2010	3,180 a	3,240 a	3.9	16	5,350		
MW-4	12/20/2010	3,320 a	3,010 a	<10	12.7	3,580		
MVV-4	3/22/2011	3,170 a	2,790 a	<10	8.4	1,160		
	6/29/2011	2,730 a	2,470 a	<5	10.6	1,670		
	9/28/2011	2,060 a	2,020 a	2.4	4.4	1,330		
	12/18/2011	2,000 a	2,120 a	1.8	20.9	3,600		
	3/30/2010	56,700 a	320	<50	<3.0	26.6		
	6/21/2010	52,200 a	432	<100	<3.0	<20		
	9/22/2010	19,400 a	155	<100	3.3	<20		
MW 10	12/20/2010	37,500 a	227	<40	6.9	<20		
MW-10	3/22/2011	31,500 a	185	<40	16.3	<20		
	6/29/2011	36,400 a	188	<25	3.5	<20		
	9/28/2011	20,100 a	80.5	<25	3.6	<20		
	12/18/2011	16,600 a	98.1	<20	4.9	<20		

Notes:

All units are in µg/L.

: Result is from Run # 2 VC : vinyl chloride a

: Not detected - Chemicals below the laboratory reporting/ Pb <1 : lead quantification limit : zinc

: trichloroethylene TCE cis-1, 2, DCE : cis-1, 2-dichloroethylene

2.1.2 Groundwater Analytical Results from MW-4

Monitoring well MW-4 was sampled quarterly during 2010 and 2011 to monitor conditions immediately downgradient of the recharge area that is monitored by MW-31R. MW-4 is



screened within the Memphis Sands, with a completion depth approximately 25 feet deeper than MW-31R. Results from 2010 and 2011 monitoring are presented in **Table 2-1**.

The detected concentrations of TCE ranged from 1,390 μ g/L (March 2010) to 3,320 μ g/L (December 2010) during the reporting period. The detected concentrations of zinc ranged from 1,160 μ g/L (March 2011) to 26,400 μ g/L (March 2010) during the reporting period. As discussed in the 2004 - 2005 Annual Progress Report (EnSafe/XDD, 2006), elevated zinc concentrations in MW-4 since 1991 (based on historical RI data) were most likely due to corrosion of the well's galvanized steel riser. Carrier will continue to monitor TCE concentrations in groundwater at MW-4 on a quarterly basis in 2012.

2.1.3 Groundwater Analytical Results from MW-10

In accordance with the 2007-2008 Annual Progress Report, monitoring well MW-10 was sampled quarterly during 2010 and 2011 to evaluate the elevated TCE concentrations at this well. Results from 2010 and 2011 monitoring are presented in **Table 2-1**. The detected concentrations of TCE ranged from 16,600 μ g/L (December 2011) to 56,700 μ g/L (March 2010) during the reporting period. Carrier will continue to monitor TCE concentrations in groundwater at MW-10 on a quarterly basis in 2012.

2.1.4 Groundwater Analytical Results from MW-60 and MW-62

Downgradient monitoring wells MW-60 and MW-62 were sampled monthly during 2010 and 2011. Results from 2010 and 2011 monitoring are presented in **Table 2-2**. The absence of VOCs in these wells in 2010 and 2011 indicates that plume capture is maintained by pumping of the West well. Overall, this data indicates that the groundwater TCE plume remains contained as required in the USEPA interim shutdown approval, dated December 22, 2006 and the 1992 ROD.

Chromium was not detected in these wells above the laboratory analytical detection/reporting limits during the reporting period. During a few sampling events, lead and zinc were detected in these wells above the laboratory detection/reporting limits. Lead was detected at 6.9 µg/L in



MW-60 during March 2011, and 3.0 μ g/L in MW-62 during December 2010. Zinc was detected at 36.1 μ g/L in MW-60 during June 2010 and 50.4 μ g/L during March 2011. However, the majority of these detected zinc concentrations were slightly above the laboratory reporting limits (i.e., limits of quantification).

	Table 2-2 Groundwater Concentrations from MW-60 and MW-62 (2010-2011)											
MW-60 MW-62								H. F.				
Date	TCE	cis- 1,2- DCE	vc	Cr (VI)	Pb	Zn	TCE	cis- 1,2- DCE	VC	Cr (VI)	Pb	Zn
1/27/2010	<2	<2	<2	T -	100 4114	-	<2	<2	<2	-	-	-
2/27/2010	<2	<2	<2		-	- 1	<2	<2	<2	-	7	10-1
3/30/2010	<2	<2	<2	<10	<3.0	<20	<2	<2	<2	<10	<3.0	<20
4/16/2010	<2	<2	<2	-		-	<2	<2	<2	- 1		-
5/19/2010	<2	<2	<2		-		<2	<2	<2	-	10-26	-
6/21/2010	<2	<2	<2	<10	<3.0	36.1	<2	<2	<2	<10	<3.0	<20
7/29/2010	<2	<2	<2			-	<2	<2	<2			
8/23/2010	<2	<2	<2	-	-	13-1	<2	<2	<2	-		-
9/22/2010	<2	<2	<2	<10	<3.0	<20	<2	<2	<2	<10	<3.0	<20
10/21/2010	<2	<2	<2		-		<2	<2	<2	-		
11/8/2010	<2	<2	<2			-	<2	<2	<2		-	-
12/20/2010	<2	<2	<2	<10	<3.0	<20	<2	<2	<2	<10	3.0	<20
1/27/2011	<2	<2	<2		-	i de	<2	<2	<2	-	1-1	-
2/25/2011	<2	<2	<2	-			<2	<2	<2	-	1 -41	
3/22/2011	<2	<2	<2	<10	6.9	50.4	<2	<2	<2	<10	<3.0	<20
4/19/2011	<2	<2	<2	-	9 -	THE I	<2	<2	<2	4 4 7		-
5/31/2011	<2	<2	<2		-		<2	<2	<2		75-11	
6/29/2011	<1	<1	<1	<10	<3.0	<20	<1	<1	<1	<10	<3.0	<20
7/14/2011	<1	<1	<1	-	-	-	<1	<1	<1	-	-	-
8/11/2011	<1	<1	<1	1		-	<1	<1	<1	-15	-	79-
9/28/2011	<1	<1	<1	<10	<3.0	<20	<1	<1	<1	<10	<3.0	<20
10/20/2011	<1	<1	<1	-	-	14-0	<1	<1	<1	- 1	-	
11/29/2011	<1	<1	<1	19/9E	100	00-	<1	<1	<1		-	1 12
12/14/2011	<1	<1	<1	<10	<3.0	<20	<1	<1	<1	<10	<3.0	<20

Notes:

All units are in µg/L

: Chemicals not analyzed/data not collected

<1 : Not Detected - Chemicals below the laboratory reporting/

quantification limit

TCE : trichloroethylene

cis-1, 2, DCE : cis-1, 2-dichloroethylene

Zn : zinc VC : vinyl chloride

Cr (VI) : hexavalent chromium

Zn : zinc Pb : lead



Carrier will continue to monitor TCE and chromium concentrations in groundwater at MW-60 and MW-62 on a bi-monthly basis in 2012.

2.1.5 Groundwater Analytical Results from Water Plant #2

WP#2 Influent Monthly Data

Figure 2-1 presents the monthly average TCE concentration trends for the influent water to the air stripper tower at WP#2 from January 2010 through December 2011. The laboratory analytical data from 2010 and 2011 is provided in **Appendix A**.

Figure 2-1 Water Plant #2 Influent Monthly Average TCE Concentrations

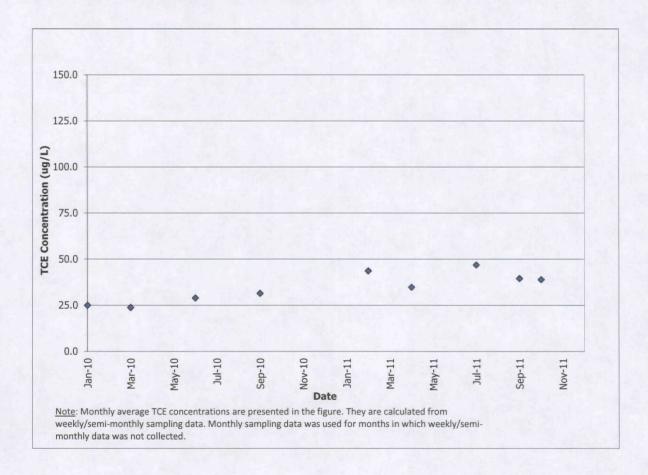




Table 2-3 presents the monthly TCE and cis-1,2 dichloroethylene (cis-1,2 DCE) concentrations before and after the groundwater is processed through the air stripping column during 2010 and 2011.

	ing Colum	n Concent	thly Average trations (201	10-2011)
	cis-1,2	uent	cis- 1,2	luent
Month	DCE (µg/L)	TCE (µg/L)	DCE (μg/L)	TCE (µg/L)
January-10	< 2	25.0	< 2	< 2
February-10	< 2	< 2.0*	< 2	< 2
March-10	< 2	23.9	< 2	< 2
June-10	< 2	29.0	< 2	< 2
September-10	< 2	31.5	< 2	< 2
February-11	< 2	43.7	< 2	< 2
April-11	<2	34.8	<2	<2
July-11	<1	46.9	<1	<1
September-11	<1	39.6	<1	<1
October-11	<1	39.0	<1	<1

Notes:

<2 : Not Detected - Chemicals below the laboratory reporting/quantification limit</p>

TCE : trichloroethylene µg/L : micrograms per liter cis-1,2 DCE : cis-1,2 dichloroethylene

As presented on **Figure 2-1**, TCE concentrations in the air stripper influent have remained consistent over the reporting period, with concentrations averaging less than 50 μ g/L. Historical air stripper influent data was presented in the 2007-2008 Annual Progress Report.

Data from the air stripping units showed consistent effluent concentrations below the laboratory detection limits throughout the reporting period, indicating that the air strippers are performing as designed.



^{*}February 2010 analytical result for WP#2 is anomalous, as detections were observed in January and March 2010. Results from January 2010 will be used for mass removal purposes.

2.2 Water Plant #2 Operation

From January 2010 through December 2011, approximately 202 million gallons of water were pumped and treated at WP#2. Appendix B includes monthly flow data for WP#2 during 2010 and 2011. **Table 2-4** presents the monthly flow rates and mass removal data during 2010 and 2011.

Water	Table	e 2-4 emoval (2010 - 201	1)
Sampling Date	Total Flow (gallons)	TCE Concentration (µg/L)	TCE Mass Removal (lbs)
January-10	1,478,715	25.0	0.31
February-10	10,815,676	25.0*	2.26
March-10	5,293,777	23.9	1.06
April-10	13,228,326	23.9**	2.64
May-10	14,747,209	23.9**	2.94
June-10	7,932,021	29.0	1.92
July-10	10,996,025	29.0**	2.66
August-10			
September-10	11,975,337	31.5	3.15
October-10	15,346,392	31.5**	4.04
November-10	8,230,070	31.5**	2.16
December-10			·
January-11	2,330,122	31.5**	0.61
February-11	8,331,384	43.7	3.04
March-11	9,791,397	43.7**	3.57
April-11	5,644,946	34.8	1.64
May-11	9,119,255	34.8**	2.65
June-11	13,194,244	34.8**	3.83
July-11	6,966,454	46.9	2.73
August-11	8,478,296	46.9**	3.32
September-11	13,516,683	39.6	4.47
October-11	14,398,177	39.0	4.69
November-11	6,002,366	39.0	1.95
December-11	4,610,286	39.0	1.50
010-2011 Total	202,427,158		57.1

Notes:

TCE : trichloroethylene lbs : pounds : micrograms per litt

μg/L : micrograms per liter

--No samples collected.

-2009 mass removal was estimated to be 21.6 lbs.

⁻WP#2 was shut down during the months of August and December 2010 for repairs and winter holidays.



^{*}Due to anomalous non-detect (ND) analytical results in February 2010, analytical results collected in January 2010 were used for mass removal calculations.

^{**}Previous month's analytical data used for mass removal calculations.

Monthly flow rates at WP#2 from January 2010 through December 2011 ranged from 1.4 million gallons per month to 15.3 million gallons per month. The removal rates were calculated using the monthly concentrations and monthly flow volumes. Approximately 57 pounds (lbs) of TCE mass were removed in 2010 and 2011. Details of the monthly operations and removal rate calculations are provided in **Appendix C**.

As of this report, approximately 6,077 lbs of TCE has been removed from water pumped at WP#2.

2.3 Water Plant #2 O&M

Following the 2007 interim shutdown period, WP#2 was reactivated on November 27, 2007 to maintain containment of the VOC plume and configured to continuously discharge at a rate of approximately 500 gpm into the Town of Collierville's POTW, after treatment via an air stripper, utilizing only the West well. Since being reactivated, WP#2 has operated continuously through December 2011 with the exception of temporary shutdowns during high rainfall events (as dictated by the Town of Collierville's POTW) and a few temporary shutdowns pending routine maintenance and repairs. No major unscheduled maintenance tasks have been required during 2010 and 2011.

2.4 Groundwater Monitoring and Water Plant #2 Planned 2012 Activities As of this report. Carrier is planning to perform the following activities in 2012:

As of this report, Carrier is planning to perform the following activities in 2012:

- Monitoring wells MW-4, MW-10, and MW-31R will be sampled semi-annually during 2012 for VOCs, lead, and zinc.
- Monitoring wells MW-60 and MW-62 will be sampled monthly during 2012 for VOCs, lead, zinc, chromium, and hexavalent chromium.



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- WP#2 will operate in interim status during 2012 using the West well pumping at approximately 500 gpm to maintain containment of the TCE plume. Consistent with previous operations, extracted groundwater will be treated to remove dissolved phase VOCs using the air stripping towers with the water being discharged to the Town of Collierville's POTW.
- The raw/influent water concentrations at WP#2 will continue to be monitored quarterly for VOCs during 2012 to gauge the effectiveness of the source area remediation systems.

3.0 SOIL

The following sections discuss the operation and findings of the MPA and NRS SVE remediation systems at the site.

3.1 MPA System

The MPA SVE system was implemented in 1995 to remediate and help prevent the migration of TCE and other VOCs from the soils into the Memphis Sand aquifer. The MPA system was shutdown in January 2002 pending repairs and a performance evaluation. System repairs were conducted at the MPA during early 2004 and the system was reactivated and optimized in April 2004 to improve mass removal in shallow zones from 0 to 15 feet below ground surface (bgs). The MPA system operated continuously from April 2004 until it was shutdown and abandoned in August 2004 due to expansion of the Main Facility Building. The MPA system was reconstructed in 2004 and 2005 and consists of an SVE system and an SSV system. The reconstruction of the MPA system was completed in October 2005 and the reconstructed MPA system was activated in December 2005. The system operated continuously from December 2005 (startup) through December 2011 with the exception of few temporary shutdowns pending repairs and/or vaporphase GAC change-outs. The reconstructed MPA operation and performance results from 2007-2008 were presented in the 2007-2008 Annual Progress Report.

The O&M information of the reconstructed MPA system from January 2010 through December 2011 is presented in the following sections of this report.



3.1.1 MPA System Operation

The reconstructed MPA system ran continuously as designed throughout the reporting period with the exception of few temporary shutdowns pending repairs and/or vapor-phase GAC change-outs. The total down time of the reconstructed MPA system during the 2010-2011 period was approximately 16 days.

As discussed in the *Initial Operation and Performance Memorandum* [XDD, 2006] and the *2006 Annual Progress Report*, at startup, the reconstructed MPA SVE system was configured to operate on approximately half of the total wells which produced the greatest chlorinated VOC vapor concentrations (a total of 54 SVE wells including: 25 shallow, 27 deep, and two deep sand wells), in accordance with the *Scope of Work: Reconstruction of Main Plant Area Remedial System* (XDD, 2004). These 54 wells are identified in **Figure D-1** (**Appendix D**). The system operated in this configuration until October 2010. Low level influent TCE vapor concentrations showed a declining trend between January 2010 and October 2010.

In October 2010, the system was reconfigured to operate on the remaining SVE wells which were previously inactive (a total of 32 SVE wells including, 14 shallow, 18 deep, and 0 deep sand wells). These 32 non-highlighted wells are identified in **Figure D-1** (**Appendix D**). The system operated in this configuration until August 2011. Low level influent TCE vapor concentrations were fairly stable between October 2010 and August 2011, with exception to a slight increase in concentration immediately following the SVE well reconfiguration.

In August 2011, the system was reconfigured to operate on the SVE wells which showed the highest VOC concentrations via field PID testing (a total of 41 SVE wells including, 20 shallow, 19 deep, and 2 deep sand wells) throughout the remainder of the reporting period. These most recent operating wells are identified in **Figure D-2** (**Appendix D**). Low level TCE vapor concentrations have shown a slight increase following the SVE well reconfiguration. The system is currently operating in this configuration.



Both the Shallow and the Deep SVE systems operated at or above the design flow throughout the reporting period. The combined average air flow rate from both the Shallow and Deep systems during the reporting period was approximately 870 standard cubic feet per minute (scfm).

At startup (December 2005), the SSV system was configured to operate on all three SSV system legs (Legs A, B, and C), and this configuration did not change throughout the reporting period. The layout of the SSV system horizontal well screens and legs is presented in **Figure D-3** (**Appendix D**).

3.1.2 MPA System Analytical Results

Routine performance sampling of the reconstructed MPA system included approximately monthly sampling of five points along vapor treatment train and approximately weekly sampling of three points along the aqueous treatment train. Vapor samples were collected at the inlet of each SVE system (shallow and deep SVE systems), at the combined system inlet, between the two vapor-phase GAC units, and at the effluent of the vapor-phase GAC units (system effluent sample) for laboratory VOC analysis per USEPA Method TO-15, approximately on a quarterly basis. The vapor samples were collected monthly at the combined system inlet, and between and after the two vapor-phase GAC units were used to monitor the adsorptive capacity of the GAC units and determine when a change-out of the carbon was necessary. If condensate was generated and subsequently discharged, water samples (i.e., condensate water from the air moisture separators) were collected before, between, and after the liquid-phase GAC units on a routine basis and analyzed for the required parameters (i.e., VOCs, total suspended solids, pH) in accordance with the POTW discharge permit. The process and instrumentation diagram (P&ID) of the reconstructed MPA system showing the sampling locations is presented in **Figure D-4** (Appendix D).

The reconstructed MPA SVE system performance vapor sampling results from 2010 and 2011 are presented graphically on **Figure 3-1**. The laboratory analytical results are included in **Appendix A**.



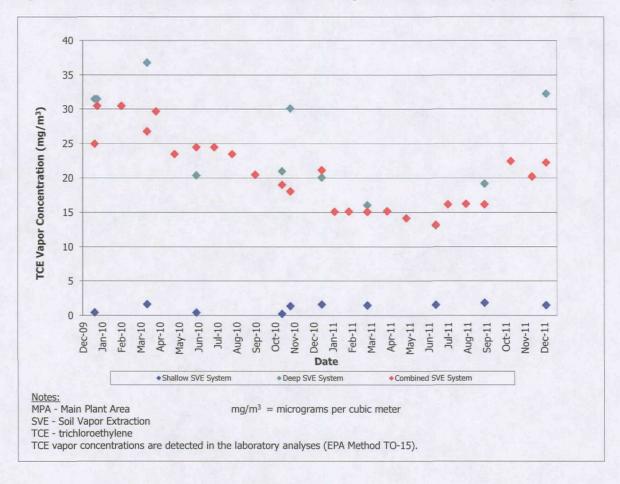


Figure 3-1 Reconstructed MPA Influent TCE Vapor Concentrations (2010-2011)

As presented in **Figure 3-1**, as of December 6, 2011, the TCE vapor concentrations in the Shallow, Deep, and combined (total) systems influent are on average 0.5 mg/m³, 31.5 mg/m³, and 25 mg/m³, respectively.

3.1.3 MPA System Performance

The reconstructed MPA system performance data and TCE mass removal calculations for 2010 and 2011 are presented in **Appendix E** and summarized in **Table 3-1**.



	Table 3-1 Reconstructed MPA TCE Mass Removal (2010 & 2011)						
	Shallow SVE System		Deep SVE System		Combined S	Effluent TCE	
Date	Influent TCE Vapor Concentration (mg/m³)	TCE Mass Removed	Influent TCE Vapor Concentration (mg/m³)	TCE Mass Removed	Influent TCE Vapor Concentration (mg/m³)	TCE Mass Removed	Vapor Concentration (mg/m³)
Dec-09	0.5	*	31.5	*	25	*	BDL
Jan-10			51.5		30.5	20.8	0.148
Feb-10	00 E E				30.5	90.7	0.011
Mar-10	1.7	2.5	36.8	162.8	26.8	91.0	0.017
Apr-10					29.7	32.0	0.007
May-10		1		-	23.5	61.9	0.004
Jun-10	0.5	0.7	20.4	84.7	24.5	65.0	0.004
Jul-10					24.5	54.6	0.003
Aug-10	4 8 8 8 8 8				23.5	53.3	BDL
Sep-10	N 20 1441				20.5	63.0	BDL
Oct-10	0.27	0.6	21	151.8	19.05	65.8	BDL
Nov-10	1.38	0.3	30.1	21.1	18.1	18.8	BDL
Dec-10	1.61	1.4	20.1	53.1	21.16	74.0	0.007
Jan-11					15.13	28.3	0.011
Feb-11					15.15	26.7	0.0062
Mar-11	1.48	1.89	16.1	61.5	15.1	35.3	BDL
Apr-11					15.2	37.9	0.0072
May-11	_				14.2	35.2	-
Jun-11	1.56	3.0	13.2	75.9	13.22	50.1	BDL
Jul-11					16.2	22.0	BDL
Aug-11				10000	16.27	35.4	BDL
Sep-11	1.85	2.5	19.2	78.7	16.2	36.6	BDL
Oct-11					22.48	64.4	0.0035
Nov-11	- 2-		The Live No.		20.25	56.2	BDL
Dec-11	1.51	3.3	32.3	214.7	22.26	75.4	0.013
2010-2011 Total		16.3		1,159**		1,175.3	

Notes:

: As presented in the 2007-2008 Annual Progress Report, the TCE mass removal through the combined Shallow and Deep systems from November 30, 2005 (initial startup) through December 2, 2008 was estimated to be 8,336 lbs. The TCE mass removal from December 2, 2008 through December 31, 2009 was estimated to be 733 lbs. The combined (total) were calculated based upon the TCE mass removed from the Shallow and the Deep SVE systems.

: Total based on monthly combined influent minus the quarterly shallow to address the lower accuracy of quarterly

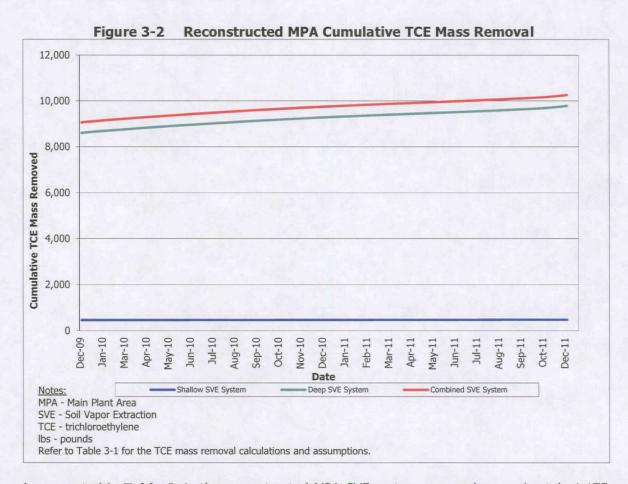
versus monthly results.
TCE : trichloroethylene

mg/m³ : milligrams per cubic meter lbs : pounds

BDL : Below detection level : Not measured



The reconstructed MPA SVE system cumulative TCE mass removal estimates for the reporting period are presented graphically on **Figure 3-2**.



As presented in **Table 3-1**, the reconstructed MPA SVE system removed approximately 1,175 lbs (combined mass removed from both the Shallow and the Deep SVE systems) of TCE during 2010 and 2011. The TCE mass removed by the Shallow and Deep SVE systems during the reporting period is estimated to be 16.3 lbs and 1,159 lbs, respectively. As presented in **Figure 3-2**, approximately **10,244 lbs** of TCE has been removed by the reconstructed MPA SVE system since its startup in December 2005 through December 2011. Prior to this, the old MPA system recovered approximately 3,916 lbs of TCE during its nine years of operation (1995 to 2004). Therefore, the removal rates have been significantly increased since the startup of the



reconstructed MPA system. A combined total of 14,160 lbs of TCE have been recovered by both the old and reconstructed MPA systems.

Based upon the laboratory analytical results of the air discharge compliance sampling performed during the reporting period, the VOC vapor concentrations at the discharge stack have been in compliance with the air discharge permit.

The TCE mass removed through the system's water stream was relatively insignificant (less than 1 lb), and therefore, was not incorporated in the TCE mass removal calculations. During 2010 and 2011, no system water was generated, treated, or discharged to the sanitary sewer system. No water discharge compliance sampling was performed (required to remain in compliance with the POTW discharge permit) during the reporting period.

3.1.4 MPA System O&M

Routine Operation and Maintenance (O&M) inspections of the MPA system were conducted on a minimum of a monthly basis during the 2010-2011 reporting period for equipment replacement/repairs, routine maintenance, and vapor-phase GAC change-outs. A total of three vapor-phase GAC change-outs were performed in March 2010, October 2010, and June 2011 during the reporting period.

3.1.5 MPA Planned 2012 Activities

At this time, Carrier is planning to perform the following activities in 2012:

- Continue to operate the reconstructed MPA system in the current well field configuration while maintaining balanced air flow rates at all wells that are operational.
- Continue to collect vapor and water samples from the system as described in Section 3.1.2 of this report.
- Continue to monitor the trends in the system's influent TCE vapor concentrations over time and the overall TCE mass removal rate.



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As discussed in the *Scope of Work* (XDD, 2004), the reconstructed MPA system is designed to operate initially in a cyclic manner, with approximately half of the total wells operating at a time. When the system influent TCE vapor concentrations and the overall TCE mass removal rates are observed to have declined to asymptotic levels, the system well field will be reconfigured. This will involve reconfiguring the wells based on field VOC sampling to focus airflow on only those wells that exhibit the highest VOC vapor concentrations and have the highest removal rates.

As discussed in the *Initial Operation and Performance Memorandum*, the *2006 Annual Progress Report*, and the *2007-2008 Annual Progress Report*, when the system influent TCE vapor concentration trends become asymptotic and/or concentrations drop to non-detectable levels, then wellhead rebound soil vapor sampling may be implemented to evaluate system progress towards closure. The trends in wellhead vapor concentrations under static conditions would be evaluated to determine if concentrations are remaining relatively constant or increasing (rebounding). If the TCE levels in soil vapor are not rebounding, then the soils in the vicinity of the respective SVE wells may have achieved stabilization.

As stated in the ROD, the cleanup level for the TCE contaminated soil will be approximately 533 micrograms per kilogram (µg/Kg) or until in USEPA's determination, it is demonstrated that contaminant levels have ceased to decline over time, and are remaining constant at some statistically significant level above remediation levels in the area of remediation, as verified by confirmatory soil sampling. However, due to access restrictions inside the facility manufacturing building (i.e., presence of manufacturing equipment), the confirmatory soil samples from the MPA may not be collected. Therefore, alternative approaches to verify compliance with the soil cleanup level (i.e., utilizing soil gas sampling data to verify compliance) will be evaluated.

3.2 NRS

The NRS was installed in 1989 to address the historical TCE releases in the former sludge lagoon area northwest of the manufacturing facility. Installed initially as a treatability study, the NRS was successful in its objectives to prevent migration of contaminants into the Memphis



Sand aquifer. Since the treatability test was successful as installed, operation was selected as the long-term Site remedy in this area. The NRS operated continuously until it was shutdown in October 2001 pending repairs and a performance evaluation. System repairs were conducted during early 2003 and the system was reactivated in November 2003. The system was optimized in early 2004 to target the shallower regions in the target area. The system operated continuously during the 2004-2007 period with the exception of few temporary shutdowns pending repairs. The NRS operation and performance results from 2007-2008 were presented in the 2007-2008 Annual Progress Report.

The O&M information of the NRS from January 2010 through December 2011 is presented in the following sections of this report.

3.2.1 NRS Operation

The NRS ran continuously as designed throughout the reporting period with the exception of few temporary shutdowns pending non-routine repairs and maintenance. The total down time of the reconstructed NRS during the 2010-2011 period was approximately 28 days. The average air flow rate from the NRS during the reporting period was approximately 135 scfm.

3.2.2 NRS Analytical Results

During 2010 and 2011, effluent vapor samples were collected from the system on a bi-monthly basis and analyzed for VOCs per USEPA Method TO-15. The analytical results were used to evaluate the overall performance of the system and to estimate overall TCE mass removal. The NRS performance vapor sampling results from 2010 and 2011 are presented graphically on **Figure 3-3**. The laboratory analytical results are included in **Appendix A**.



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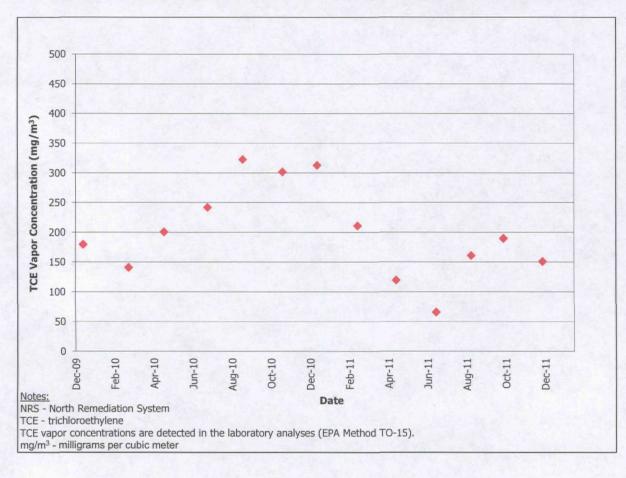


Figure 3-3 NRS Influent/Effluent TCE Vapor Concentrations (2010-2011)

As presented in **Figure 3-3**, the TCE vapor concentrations in system influent/effluent were typical and varied in concentrations ranging from 66 mg/m³ to 320 mg/m³ during the reporting period.

3.2.3 NRS Performance

The NRS performance data and TCE mass removal calculations for 2010 and 2011 are presented in **Appendix F** and summarized in **Table 3-2**.



NRS	Table 3-2 NRS TCE Mass Removal (2010 - 2011)					
Date	Air Flow rate (scfm)	Influent /Effluent TCE Concentrations (mg/m³)	TCE Mass Removed (lbs)			
12/15/09	135	180	-			
02/25/10	139	140	126			
04/22/10	136	200	136			
06/30/10	118	240	176			
08/25/10	126	320	203			
10/27/10	127	300	215			
12/21/10	146	310	224			
02/23/11	140	20	168			
04/25/11	138	120	91			
06/27/11	145	66	54			
08/22/11	133	160	107			
10/12/11	127	190	110			
12/13/11	149	150	124			
2010-2011 To	tal		1,734			

Notes:

TCE

: trichloroethylene : standard cubic feet per minute : milligrams per cubic meter scfm mg/m³

: pounds

The NRS cumulative TCE mass removal estimates are presented graphically on Figure 3-4.



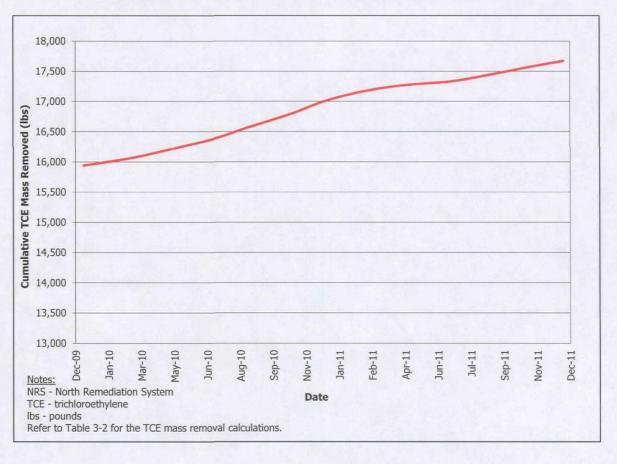


Figure 3-4 NRS Cumulative TCE Mass Removal

As presented in **Table 3-2**, approximately 1,734 lbs of TCE was removed from the NRS during 2010 and 2011. As presented in Figure 3-4, over 17,691 lbs of TCE has been removed from the NRS since its startup in 1989 through December 2011. Noting the system modifications/optimizations performed in 2003 and 2004, the TCE mass removal rates from the NRS for 2010 and 2011 are comparable to historical rates.

The NRS did not generate any water during 2010 and 2011.



3.2.4 NRS 0&M

As discussed previously in this report, the NRS ran continuously during 2010 and 2011 with exception to a few temporary shutdowns pending routine maintenance.

3.2.5 NRS Planned 2012 Activities

As of this report, Carrier is planning to perform the following activities in 2012:

- Continue to operate the NRS system following the same protocols as 2010 and 2011.
- Continue to collect vapor samples from system influent for laboratory VOC analysis on a bi-monthly basis.

Similar to the MPA system, when the NRS influent TCE vapor concentration trends become asymptotic and/or concentrations drop to non-detectable levels, then wellhead rebound soil vapor sampling may be implemented to evaluate system progress towards closure. If the TCE levels in soil vapor are not rebounding, confirmatory soil sampling will be performed to verify compliance with the soil cleanup level for closure.



4.0 2010-2011 CONCLUSIONS

Operations at the Carrier Site are proceeding in accordance with recent modifications and interim plans. As indicated in the 2009 Five-Year Review, the remedies implemented at the MPA, NRS, and WP#2 for the Site are protective of human health and the environment. Further, conditions at the Site are not expected to change in the near future, given the local area's land use (industrial/commercial) and zoning controls currently in place.

Based upon the current concentration trends at the WP#2, MW-60 and MW-62 and the remedial progress made at the MPA, NRS, and WP#2 to date, Carrier is proposing that the current reporting frequency be changed from annually to a standard five-year basis. Carrier requests that the proposed change in the reporting frequency be granted before the end of year 2012. Pending USEPA's approval of this request, future progress information and data at the site will be provided in the subsequent five-year reviews with the first one occurring in 2015. Upon USEPA's request, Carrier will provide supplemental systems performance information in a letter or memorandum format.

4.1 Groundwater Results and Conclusions

As discussed in the 2007-2008 Annual Progress Report, and the 2009 Five-Year Review Report, WP#2 is integral to the containment of the TCE plume within the Memphis Sand aquifer. Because of the depth and complexity of the aquifer, alternative treatment technologies are not feasible. Moreover, because the large body of analytical data collected at WP#2 since contamination was first detected in the Town of Collierville's wells, is a key indicator of contaminant migration and the effectiveness of source area remedial actions. The significant decrease in TCE concentrations at WP#2 observed between 2008 and 2011 and the continuous decreasing trend in TCE concentrations are likely a result of the ongoing remedial operations and progress at WP#2. The non-detect TCE concentrations in downgradient monitoring wells MW-60 and MW-62 continue to indicate that plume containment at WP#2 is ongoing. Further, monitoring of wells MW-60 and MW-62 performed during the 2007 interim shutdown of WP#2 confirms that temporary cessation in pumping of WP#2 (i.e., 12 months) does not impact the remedy performance and that the groundwater TCE plume remains contained.



Given these conclusions, Carrier will pursue the following actions in 2012:

- Carrier will continue to monitor MW-4, MW-10, and MW-31R on a semi-annual basis.
- WP#2 continues to operate in interim status, providing containment of the TCE plume and discharging to the Town of Collierville's POTW.
- Carrier will continue to monitor the raw/influent water concentrations at WP#2 bimonthly to gauge the effectiveness and progress of the source area remediation systems.
- Carrier will monitor MW-60 and MW-62 bi-monthly to assess the containment of the TCE plume on site.

4.2 Soil Results and Conclusions

At the conclusion of 2011, both the MPA and the NRS SVE systems were operating normally and no non-routine maintenance issues were anticipated. TCE mass removal rates at the MPA have significantly decreased since the startup of the reconstructed MPA system in December 2005. TCE mass removal rates at the NRS have also decreased since the last system optimization that was performed in 2003 and 2004.

The reconstructed MPA system ran continuously during 2010 and 2011, with the exception of few temporary shutdowns pending repairs and/or vapor-phase GAC change-outs, and removed approximately 1,175 lbs of TCE. As of this report, over 14,160 lbs of TCE has been removed from the MPA since its startup in 1995. Carrier proposes continued operation of the MPA in 2012.

The NRS operated continuously during 2010 and 2011, with the exception of some non-routine maintenance, and removed approximately 1,734 lbs of TCE; the total TCE removal since 1989 is over 17,691 lbs. Carrier proposes continued operation of the NRS in 2012.



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5.0 REFERENCES

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APPENDIX A

Laboratory Analytical Results
(Attached CD)

APPENDIX B
Water Plant #2 Monthly Flow Data

APPENDIX B Water Plant #2 Monthly Flow Data Carrier Air Conditioning Site Collierville, TN

Sampling Date Flow Totalizer Reading (total gallons) 01-04-10 691,223,491 01-25-10 691,237,747 01-25-10 691,237,747 01-25-10 692,008,102 01-28-10 692,702,206 02-03-10 692,706,460 02-04-10 693,232,504 02-05-10 693,232,504 02-05-10 695,035,396 02-12-10 695,038,985 02-14-10 696,431,646 02-15-10 696,431,646 02-15-10 696,432,841 02-18-10 697,057,646 02-17-10 696,432,841 02-23-10 698,986,106 02-25-10 700,946,120 02-26-10 701,539,615 03-01-10 703,517,882 03-02-10 704,134,299 03-08-10 708,102,668 03-16-10 708,102,668 03-16-10 708,102,668 03-16-10 708,104,992 03-16-10 708,104,992 03-16-10 709,479,409		Stripper Effluent
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06-22-10 741,584,341 06-23-10 742,181,745 06-24-10 742,475,999 06-29-10 743,381,040 06-30-10 743,970,092 07-01-10 744,719,215 07-02-10 745,258,687 07-06-10 747,689,611 07-07-10 748,222,714 07-08-10 749,831,882 07-09-10 749,428,652 07-12-10 749,505,981 07-16-10 749,506,880		
06-23-10 742,181,745 06-24-10 742,475,999 06-29-10 743,381,040 06-30-10 743,970,092 07-01-10 744,719,215 07-02-10 745,258,687 07-06-10 747,689,611 07-07-10 748,222,714 07-08-10 749,831,882 07-09-10 749,428,652 07-12-10 749,505,981 07-16-10 749,506,880		
06-24-10 742,475,999 06-29-10 743,381,040 06-30-10 743,970,092 07-01-10 744,719,215 07-02-10 745,258,687 07-06-10 747,689,611 07-07-10 748,222,714 07-08-10 748,831,882 07-09-10 749,428,652 07-12-10 749,505,981 07-16-10 749,506,880		
06-30-10 743,970,092 07-01-10 744,719,215 07-02-10 745,258,687 07-06-10 747,689,611 07-07-10 748,222,714 07-08-10 748,831,882 07-09-10 749,428,652 07-12-10 749,505,981 07-16-10 749,506,880	06-24-10	742,475,999
07-01-10 744,719,215 07-02-10 745,258,687 07-06-10 747,689,611 07-07-10 748,222,714 07-08-10 748,831,882 07-09-10 749,428,652 07-12-10 749,505,981 07-16-10 749,506,880		
07-02-10 745,258,687 07-06-10 747,689,611 07-07-10 748,222,714 07-08-10 748,831,882 07-09-10 749,428,652 07-12-10 749,505,981 07-16-10 749,506,880		
07-06-10 747,689,611 07-07-10 748,222,714 07-08-10 748,831,882 07-09-10 749,428,652 07-12-10 749,505,981 07-16-10 749,506,880		
07-07-10 748,222,714 07-08-10 748,831,882 07-09-10 749,428,652 07-12-10 749,505,981 07-16-10 749,506,880		747,689,611
07-08-10 748,831,882 07-09-10 749,428,652 07-12-10 749,505,981 07-16-10 749,506,880	07-07-10	748,222,714
07-12-10 749,505,981 07-16-10 749,506,880	_	748,831,882
07-16-10 749,506,880		
07-26-10 755,066,821		

Collerville, IN				
	Stripper Effluent Flow Totalizer			
Sampling	Reading			
Date 07-27-10	(total gallons) 755,104,151			
07-27-10	755,105,206			
07-29-10	755,715,240			
09-02-10	755,716,359			
09-02-10 09-07-10	755,726,319 757,895,766			
09-08-10	758,080,159			
09-08-10	758,096,465			
09-10-10 09-13-10	758,263,529 759,649,371			
09-16-10	760,448,604			
09-17-10	760,547,270			
09-18-10 09-21-10	761,200,593			
09-24-10	761,820,934 763,557,717			
10-01-10	767,690,577			
10-04-10	769,413,066			
10-14-10 10-14-10	773,648,320 773,651,899			
10-18-10	776,007,903			
10-19-10	776,629,322			
10-20-10 10-21-10	777,239,175 777,876,658			
10-21-10	778,373,420			
10-25-10	779,679,799			
10-26-10	780,165,524			
10-28-10 10-28-10	780,659,274 781,302,597			
11-01-10	783,036,969			
11-02-10	783,602,938			
11-04-10 11-05-10	783,603,674 784,303,736			
11-03-10	786,134,395			
11-09-10	786,650,280			
11-10-10	787,181,170			
11-10-10 11-15-10	787,188,658 788,549,580			
11-15-10	788,577,459			
11-16-10	788,717,600			
11-18-10 11-22-10	788,792,830 791,199,103			
11-22-10	791,199,103			
01-05-11	791,267,039			
01-19-11	791,270,835			
01-27-11 01-28-11	791,272,076 791,902,073			
01-31-11	793,545,871			
02-01-11	793,597,161			
02-08-11	793,598,488			
02-09-11 02-10-11	794,204,913 794,695,579			
02-11-11	795,298,858			
02-22-11	800,844,864			
02-23-11 02-25-11	801,343,412 801,493,623			
03-01-11	801,928,545			
03-02-11	802,524,629			
03-03-11 03-04-11	803,159,140 803,654,029			
03-04-11	803,753,022			
03-08-11	804,272,270			
03-11-11	804,835,569			
03-14-11 03-15-11	805,949,783 806,074,924			
03-16-11	806,620,598			
03-17-11	807,107,657			
03-18-11 03-21-11	807,699,855 809,322,387			
03-21-11	810,476,083			
03-24-11	811,029,918			
03-25-11	811,621,637			
03-28-11 04-01-11	811,627,936 811,719,942			
04-04-11	813,294,453			
04-06-11	813,425,975			
04-12-11 04-13-11	815,851,595 815,964,432			
04-13-11	815,964,432			
04-15-11	816,549,825			
04-19-11	817,235,729			
04-20-11 05-10-11	817,364,888 817,369,484			
UU-10-11	017,309,404			

Sampling Date Flow Totalizer Reading (total gallons) 05-11-11 817,941,712 05-13-11 819,131,644 05-23-11 823,173,277 05-25-11 823,185,766 05-26-11 823,201,453 05-31-11 825,904,940 06-01-11 826,484,143 06-02-11 827,048,755 06-07-11 829,780,873 06-10-11 831,525,866 06-13-11 832,199,653 06-16-11 832,332,336 06-27-11 836,728,579 06-28-11 837,150,431 07-05-11 839,678,387 07-06-11 840,199,104 07-07-11 840,261,637 07-13-11 841,485,460 07-14-11 841,949,677 07-19-11 844,251,580 08-01-11 844,257,580 08-01-11 847,193,743 08-02-11 847,193,743 08-03-11 847,193,743 08-03-11 848,320,291 08-11 848,316,871		Stripper Effluent
Date (total gallons) 05-11-11 817,941,712 05-13-11 819,131,644 05-23-11 823,173,277 05-25-11 823,201,453 05-31-11 825,904,940 06-01-11 826,484,143 06-02-11 827,048,755 06-07-11 829,780,873 06-10-11 831,525,866 06-13-11 832,332,336 06-27-11 836,728,579 06-28-11 837,150,431 07-05-11 839,678,387 07-06-11 840,291,633 07-06-11 840,291,637 07-06-11 840,291,637 07-13-11 841,485,460 07-14-11 841,99,104 07-07-13-11 844,251,06 07-14-11 841,949,677 07-19-11 844,251,06 07-20-11 844,251,06 07-20-11 844,251,06 07-20-11 844,251,06 07-20-11 844,257,580 08-01-11 846,644,841 08-02-11 84		
05-11-11 817,941,712 05-13-11 819,131,644 05-23-11 823,173,277 05-25-11 823,185,766 05-26-11 823,201,453 05-31-11 825,904,940 06-01-11 826,484,143 06-02-11 827,048,755 06-07-11 829,780,873 06-10-11 831,525,866 06-13-11 832,199,653 06-16-11 832,332,336 06-16-11 832,332,336 06-27-11 836,728,579 06-28-11 837,150,431 07-05-11 839,678,387 07-06-11 840,199,104 07-07-11 840,261,637 07-13-11 841,485,460 07-14-11 841,949,677 07-19-11 844,252,106 07-20-11 844,257,580 08-01-11 847,193,743 08-03-11 847,702,260 08-04-11 848,316,871 08-05-11 849,326,156 08-17-11 849,326,156 08-17-11 849,326,156 08-17-11 849,326,156 08-17-11 849,777,774 08-22-11 850,323,820 08-23-11 850,323,820 08-23-11 850,323,820 08-23-11 851,244,676 08-29-11 855,966,294 08-30-11 855,123,137 09-06-11 856,135,416 09-07-11 866,48,610 09-08-11 869,755,639 09-02-11 865,242,866 08-29-11 855,966,294 08-30-11 860,578,391 09-19-11 860,578,391 09-19-11 860,578,391 09-19-11 860,578,391 09-19-11 860,578,391 09-19-11 860,578,391 09-19-11 860,578,391 09-19-11 860,578,391 09-10-11 1 873,616,662 10-17-11 873,616,662 11-15-11 884,988,247 09-20-11 877,482,395 10-24-11 873,666,887 10-14-11 873,616,662 11-15-11 885,950,926 11-15-11 885,950,926 11-15-11 885,950,926 11-15-11 885,950,926 11-15-11 889,040,363 12-13-11 886,990,966 11-15-11 889,040,363 12-13-11 887,070,885 12-13-11 889,040,363 12-13-11 889,040,363 12-13-11 889,040,363 12-13-11 889,040,363 12-13-11 889,040,363 12-13-11 889,040,363 12-13-11 889,040,363 12-13-11 889,040,363 12-13-11 889,040,363 12-13-11 889,040,363 12-13-11 889,040,363 12-13-11 889,040,363 12-13-11 889,040,363 12-13-11 889,040,363 12-13-11 889,040,363 12-13-11 889,040,363 12-13-11 889,040,363 12-13-11 889,040,363 12-13-11 889,040,363 12-13-11 891,941,91 12-19-11 889,040,363		_
05-13-11 819,131,644 05-23-11 823,173,277 05-25-11 823,185,766 05-26-11 823,201,453 05-31-11 825,904,940 06-01-11 826,484,143 06-02-11 827,048,755 06-07-11 829,780,873 06-10-11 831,525,866 06-13-11 832,199,653 06-16-11 832,332,336 06-27-11 836,728,579 06-28-11 837,150,431 07-05-11 839,678,387 07-06-11 840,199,104 07-07-11 840,261,637 07-13-11 841,485,460 07-14-11 844,254,458 07-25-11 844,257,580 08-01-11 844,257,580 08-01-11 847,193,743 08-03-11 847,702,260 08-04-11 848,316,871 08-05-11 848,320,291 08-16-11 849,326,156 08-17-11 849,326,156 08-17-11 849,326,156 08-17-11 849,326,156 08-17-11 849,326,156 08-17-11 849,326,156 08-17-11 849,326,156 08-17-11 855,323,820 08-23-11 850,823,820 08-23-11 850,823,820 08-23-11 850,823,820 08-23-11 850,823,820 08-23-11 850,323,820 08-23-11 850,823,820 09-23-11 850,823,820 09-23-11 850,133,137 09-06-11 860,578,391 09-10-11 866,639,820 10-05-11 869,755,633 10-06-11 870,235,412 10-11-11 873,012,777 10-12-11 873,666,887 10-14-11 873,012,777 10-12-11 873,666,887 10-14-11 883,937,997 11-18-11 884,939,909,966 11-15-11 885,930,966 11-17-11 885,930,966 11-17-11 885,930,966 11-17-11 885,930,966 11-17-11 885,930,966 11-17-11 885,930,966 11-17-11 885,930,966 11-17-11 885,930,966 11-17-11 885,930,966 11-17-11 883,930,991 11-11-11 891,940,971		
05-23-11 823,173,277 05-25-11 823,185,766 05-26-11 823,201,453 05-31-11 825,904,940 06-01-11 826,484,143 06-02-11 827,048,755 06-07-11 829,780,873 06-10-11 831,525,866 06-13-11 832,199,653 06-16-11 832,332,336 06-27-11 836,728,579 06-28-11 837,150,431 07-05-11 839,678,387 07-06-11 840,199,104 07-07-11 840,261,637 07-13-11 841,485,460 07-14-11 841,494,677 07-19-11 844,252,106 07-20-11 844,254,458 07-25-11 844,257,580 08-01-11 847,193,743 08-03-11 847,702,260 08-04-11 848,316,871 08-05-11 849,320,191 08-16-11 849,317,784 08-19-11 849,777,772 08-22-11 850,323,820 08-23-11 849,777,784 08-19-11 850,323,820 08-23-11 850,323,820 08-23-11 855,123,137 09-06-11 855,123,137 09-06-11 855,123,137 09-06-11 855,123,137 09-08-11 856,486,610 09-07-11 856,248,610 09-09-11 856,135,416 09-07-11 866,574,998 09-13-11 860,578,391 09-19-11 866,574,998 09-13-11 860,578,391 09-19-11 860,578,391 09-19-11 861,988,247 09-20-11 865,423,536 09-29-11 865,423,536 09-29-11 865,423,536 09-29-11 87,086,897 09-10-11 866,578,391 09-10-11 87,085,213 09-10-11 87,085,213 09-10-11 87,085,213 09-10-11 87,085,213 09-10-11 886,396,294 09-11 87,085,213 09-10-11 87,085,213 09-10-11 886,396,294 09-11 885,123,137 09-06-11 866,573,391 09-10-11 866,573,391 09-10-11 866,573,391 09-10-11 87,085,213 09-10-11 87,085,213		
05-25-11 823,185,766 05-26-11 823,201,453 05-31-11 825,904,940 06-01-11 826,484,143 06-02-11 827,048,755 06-07-11 829,780,873 06-10-11 831,525,866 06-13-11 832,199,653 06-16-11 832,332,336 06-27-11 836,728,579 06-28-11 837,150,431 07-05-11 840,199,104 07-07-11 840,261,637 07-13-11 841,485,460 07-14-11 841,949,677 07-19-11 844,252,106 07-20-11 844,257,580 08-01-11 847,193,743 08-03-11 847,702,260 08-04-11 848,316,871 08-05-11 849,326,156 08-17-11 849,717,784 08-19-11 849,717,784 08-19-11 849,717,784 08-22-11 850,323,820 08-23-11 850,323,820 08-23-11 850,323,820 08-24-11 851,244,676 08-25-11 856,135,416 09-07-11 856,135,416 09-07-11 856,135,416 09-07-11 856,135,416 09-07-11 856,135,416 09-07-11 856,135,416 09-07-11 866,978,399 09-13-11 866,978,399 09-13-11 866,978,399 09-13-11 866,978,399 09-13-11 866,978,399 09-13-11 866,135,416 09-07-11 866,135,416 09-07-11 866,135,416 09-07-11 866,135,416 09-07-11 856,123,137 09-06-11 866,135,416 09-07-11 866,135,416 09-07-11 856,135,416 09-07-11 866,978,399 09-13-11 860,078,399 09-13-11 860,078,399 09-13-11 860,078,399 09-13-11 860,078,399 09-13-11 860,078,399 09-13-11 860,078,399 09-13-11 860,078,399 09-13-11 860,078,399 09-13-11 860,090,966 09-23-11 860,979 09-13-11 860,978,399 09-13-11 860,978,399 09-13-11 860,978,399 09-13-11 860,978,399 09-13-11 860,978,399 09-13-11 860,978,399 09-13-11 860,978,399 09-13-11 860,978,399 09-13-11 860,990,966 09-13-11 879,071,099 09-13-11 881,982,47 09-13-11 881,982,47 09-13-11 881,982,499 09-13-11 881,982,499 09-13-11 881,982,499 09-13-11 881,982,499 09-13-11 881,982,499 09-13-11 881,982,499 09-13-11 881,982,499 09-13-11 881,98		823,173,277
05-31-11 825,904,940 06-01-11 826,484,143 06-02-11 827,048,755 06-07-11 829,780,873 06-10-11 831,525,866 06-13-11 832,199,653 06-16-11 832,332,336 06-27-11 836,728,579 06-28-11 837,150,431 07-05-11 839,678,387 07-06-11 840,199,104 07-07-11 840,261,637 07-13-11 841,485,460 07-14-11 844,254,458 07-25-11 844,257,580 08-01-11 844,257,580 08-01-11 847,193,743 08-03-11 847,702,260 08-04-11 848,316,871 08-05-11 849,326,156 08-11 849,777,7784 08-10-11 849,777,7784 08-10-11 849,777,7784 08-21 850,323,820 08-23-11 850,323,820 08-23-11 850,323,820 08-23-11 850,323,820 08-23-11 851,244,676 08-25-11 852,966,294 08-30-11 855,123,137 09-06-11 856,135,416 09-07-11 866,578,391 09-13-11 860,035,213 09-16-11 860,578,391 09-19-11 860,578,391 09-13-11 860,578,391	05-25-11	823,185,766
06-01-11 826,484,143 06-02-11 827,048,755 06-07-11 829,780,873 06-10-11 831,525,866 06-13-11 832,199,653 06-16-11 832,332,336 06-27-11 836,728,579 06-28-11 837,150,431 07-05-11 840,199,104 07-07-11 840,261,637 07-13-11 841,485,460 07-14-11 841,949,677 07-19-11 844,252,106 07-20-11 844,254,458 07-25-11 847,193,743 08-03-11 847,193,743 08-03-11 847,193,743 08-03-11 848,320,291 08-16-11 849,326,156 08-17-11 849,377,784 08-19-11 849,777,784 08-22-11 850,323,820 08-23-11 850,842,946 08-24-11 851,244,676 08-29-11 852,966,294 08-30-11 855,123,137 09-06-11 856,135,416 09-07-11 856,135,416 09-07-11 856,248,610 09-08-11 856,774,998 09-11 856,135,416 09-07-11 860,055,213 09-16-11 860,055,213 09-16-11 860,578,391 09-19-11 861,988,247 09-20-11 861,988,247 09-20-11 866,438,360 09-21-11 859,460,977 09-15-11 860,055,213 09-16-11 860,055,213 09-16-11 860,578,391 09-19-11 861,988,247 09-20-11 856,774,998 09-11 856,135,416 09-07-11 866,435,416 09-07-11 876,136,809 09-02-11 876,136,809 09-02-11 876,136,809 09-02-11 876,136,809 09-02-11 876,136,809 09-02-11 876,136,809 09-02-11 876,136,809 09-02-11 876,136,809 09-02-11 876,136,809 09-02-11 876,136,809 09-02-11 876,136,809 09-02-11 876,136,809 09-02-11 876,136,809 09-02-11 876,136,809 09-02-11 876,136,809 09-02-11 877,728		
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12-21-11 893,650,649	12-19-11	893,629,723
	12-21-11	893,650,649

APPENDIX C Water Plant #2 TCE Mass Removal Calculations

Appendix C Water Plant#2 TCE Mass Removal Calculations Carrier Air Conditioning Site Collierville, TN

	Influent Cor	ncentrations	Total Flow	Mass Removed	
	cis- 1,2 DCE	TCE	(gallons)	cis- 1,2 DCE	TCE
Month	(μg/L)	(µg/L)	,	(lbs)	(lbs)
January-10	< 2.0	25.0	1,478,715	0	0.31
February-10	< 2.0	25.0*	10,815,676	0	2.26
March-10	< 2.0	23.9	5,293,777	0	1.06
April-10	< 2.0*	23.9*	13,228,326	0	2.64
May-10	< 2.0*	23.9*	14,747,209	0	2.94
June-10	< 2.0	29.0	7,932,021	0	1.92
July-10	< 2.0*	29.0*	10,996,025	0	2.66
August-10					
September-10	< 2.0	31.5	11,975,337	0	3.15
October-10	< 2.0*	31.5*	15,346,392	0	4.04
November-10	< 2.0*	31.5*	8,230,070	0	2.16
December-10					
January-11	< 2.0*	31.5*	2,330,122	0	0.61
February-11	< 2.0	43.7	8,331,384	0	3.04
March-11	< 2.0*	43.7*	9,791,397	0	3.57
April-11	< 2.0	34.8	5,644,946	0	1.64
May-11	< 2.0*	34.8*	9,119,255	0	2.65
June-11	< 2.0*	34.8*	13,194,244	0	3.83
July-11	<1.0	46.9	6,966,454	0	2.73
August-11	< 1.0*	46.9*	8,478,296	0	3.32
September-11	< 1.0	39.6	13,516,683	0	4.47
October-11	< 1.0	39.0	14,398,177	0	4.69
November-11	< 1.0*	39.0*	6,002,366	0	1.95
December-11	< 1.0*	39.0*	4,610,286	0	1.50
2010 - 2011 Total			202,427,158	0.0	57.1

Notes:

Mass Removed = Flowrate
$$\left(\frac{\text{gal}}{\text{month}}\right) \times \left(\frac{1 \text{ L}}{0.264 \text{ gal}}\right) \times \text{Concentration} \left(\frac{\mu \text{g}}{\text{L}}\right) \times \left(\frac{1 \text{ g}}{10^6 \text{ } \mu \text{g}}\right) \times \left(\frac{1 \text{ lbs}}{453.6 \text{ g}}\right)$$

TCE : trichloroethylene

cis- 1,2 DCE : cis- 1,2 dichloroethylene µg/L : micrograms per liter

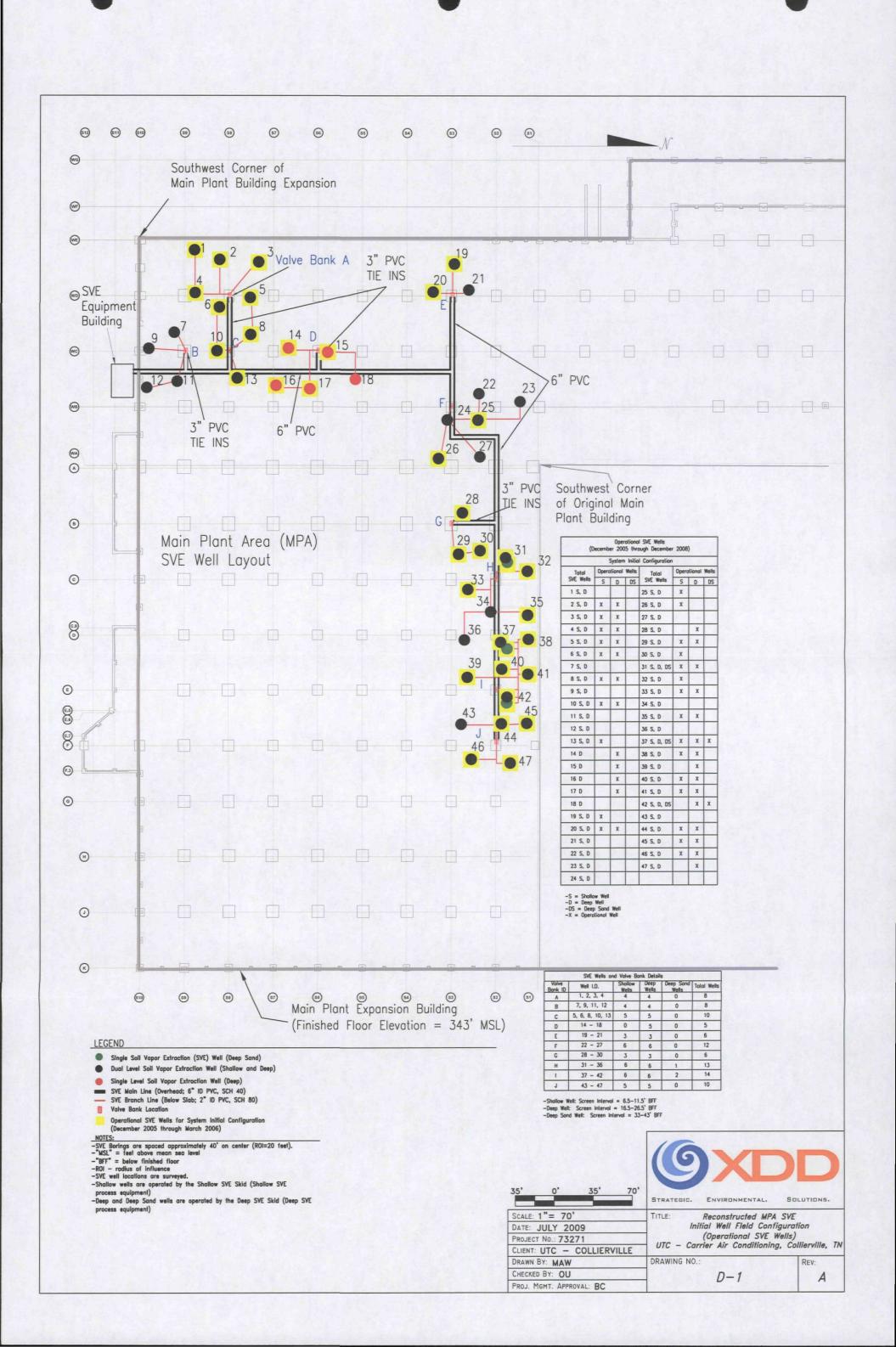
lbs : pounds

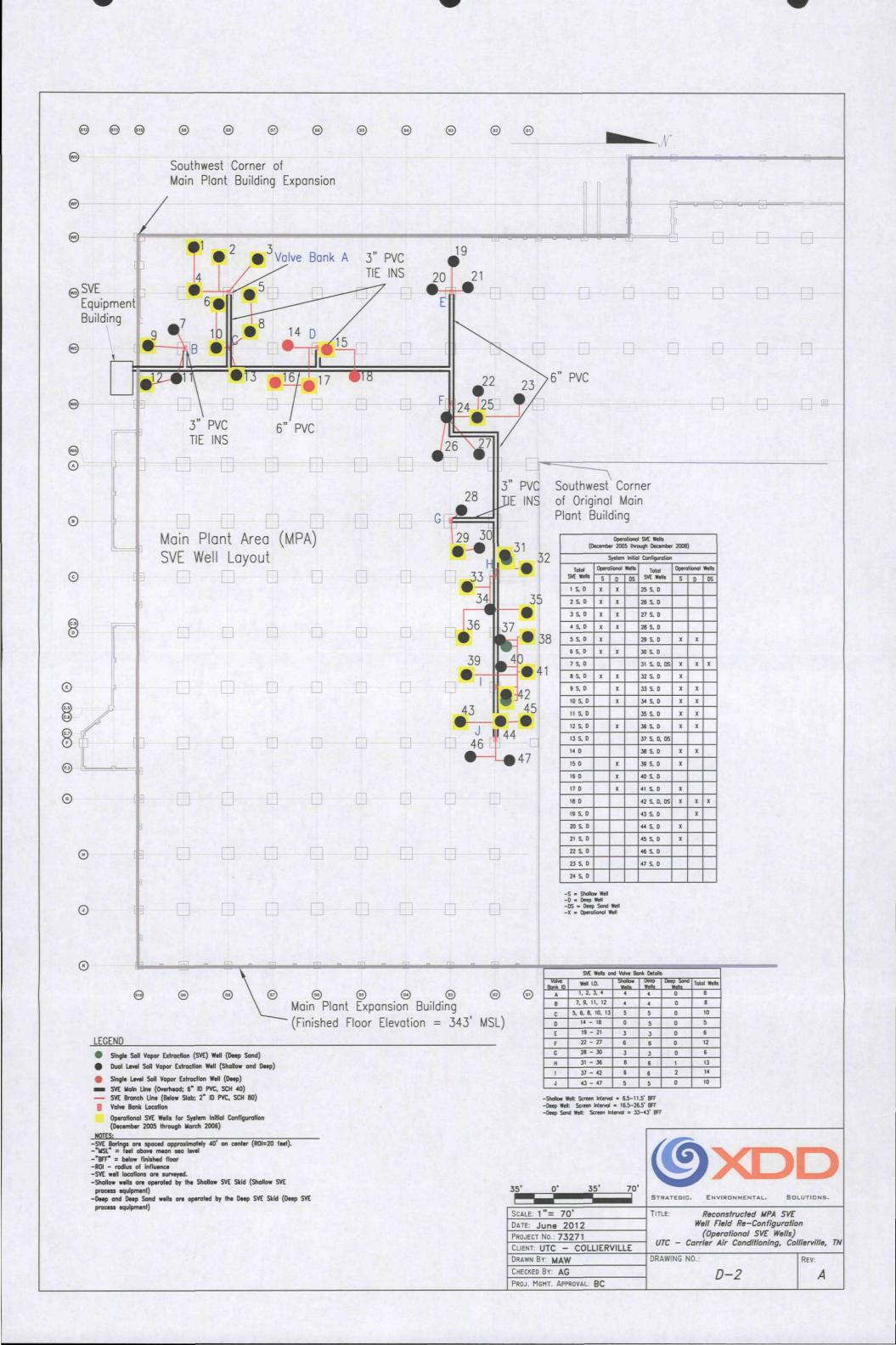
<2.0 : Not detected - Chemicals below lab reporting/qualification limit</p>

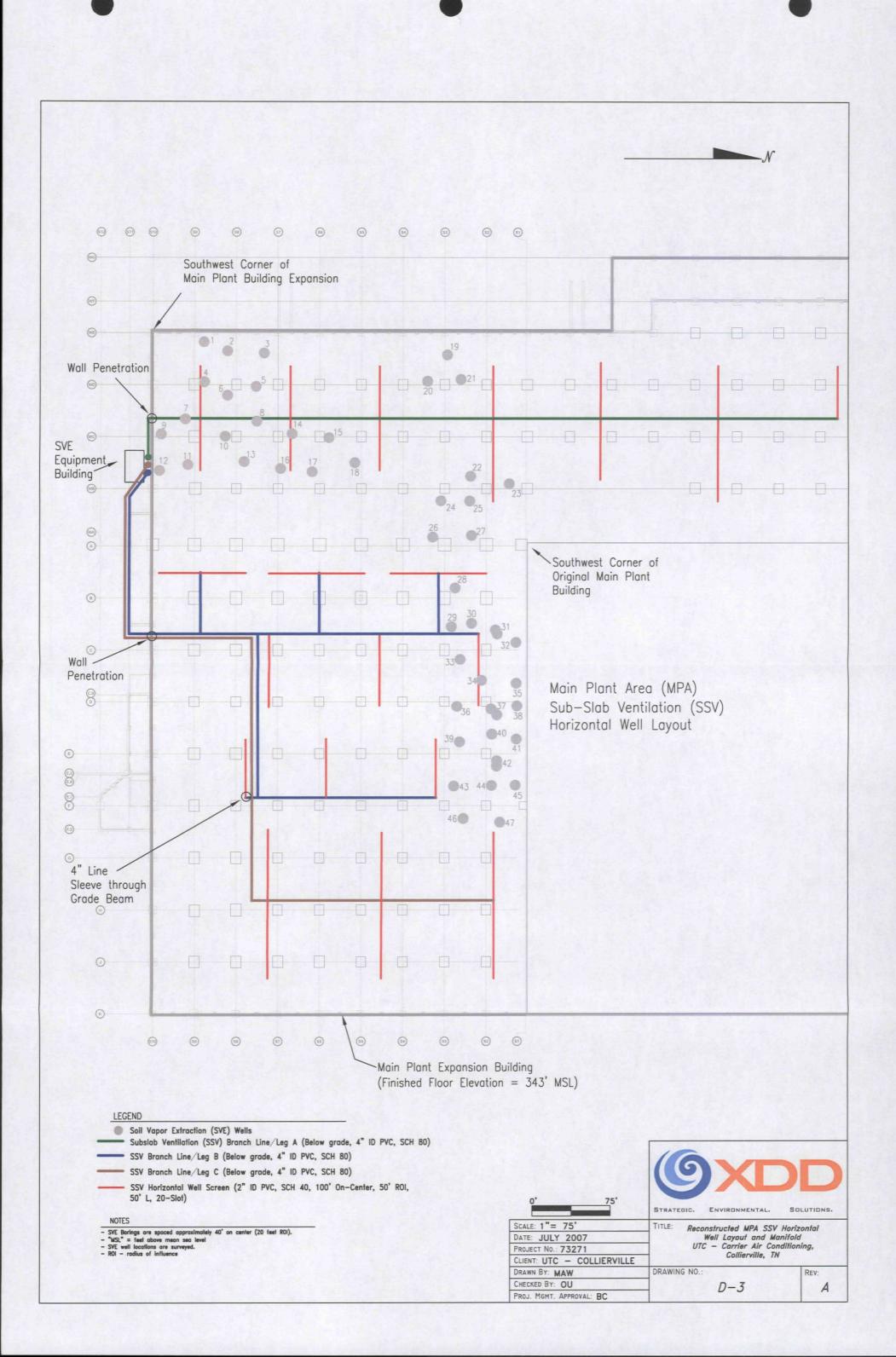
a : Result is from Run #2
* Results assumed from previous results.

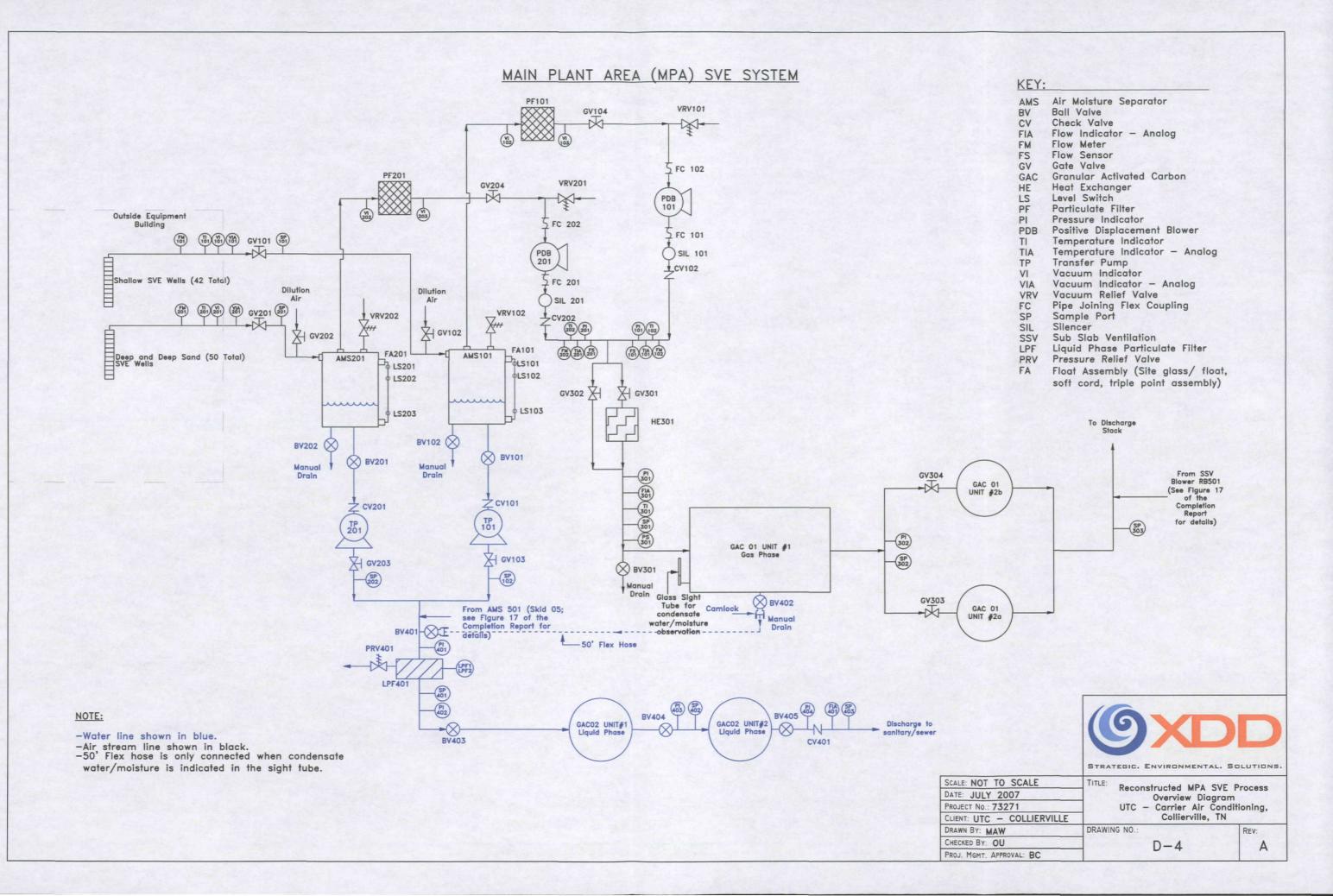
Appendix D

Reconstructed MPA SVE and SSV As-Built Drawings









APPENDIX E
Reconstructed MPA Performance Data and TCE Mass Removal Calculations

Appendix E Reconstructed MPA Performance Data and TCE Mass Removal Calculations Carrier Air Conditioning Site Collierville, TN

Collierville, TN Shallow SVE System (2010–2011)						
Date	Air Flow rate (scfm)	Air Flow Rate (m³/min)	Influent TCE Vapor Concentration (µg/m³)	TCE Mass Removal Rate (Ibs/day)	Elapsed Days of Operation	TCE Mass Removed (lbs)
12/31/09**	200	5.7	460			
01/04/2010						
02/11/2010						
03/23/2010	200	5.7	1,650	0.03	82	2.51
04/06/2010						
05/05/2010						
06/08/2010	200	5.7	450	0.01	77	0.7
07/06/2010						
08/03/2010						
09/08/2010						
10/20/2010	200	5.7	270	0.01	134	0.65
11/02/2010	200	5.7	1,380	0.03	13	0.32
12/21/2010	200	5.7	1,610	0.03	49	1.42
01/10/2011	-					
02/01/2011						
03/02/2011	200	5.7	1,480	0.03	71	1.89
04/02/2011						
05/02/2011						
06/17/2011	200	5.7	1,560	0.02	107	3.0
07/06/2011						
08/03/2011						
09/01/2011	200	5.7	1,850	0.02	76	2.53
10/12/2011	-					
11/14/2011						
12/06/2011	200	5.7	1,510	0.01	121	3.29
2010-2011	Total					16.3

Mass Removal Rate = Flowrate
$$\left(\frac{\text{m}^3}{\text{min}}\right) \times \text{Concentrat ion} \left(\frac{\mu g}{\text{m}^3}\right) \times \left(\frac{1 \text{ lbs}}{453.6 \times 10^6 \text{ µg}}\right) \times \left(\frac{1440 \text{ min}}{\text{day}}\right)$$

Notes:

: As presented in the 2006 Annual Progress Report, the TCE mass removal through the Shallow SVE

system from November 30, 2005 (initial Startup) through December 4, 2006 was estimated to be 404 lbs.

: Data assumed from previous measurements.

: Not measured or not calculated : standard cubic feet per minute

scfm : standard cubic fee TCE : trichloroethylene

µg/m³ : micrograms per cubic meter m³/min : cubic meter per minute

lbs : pounds lbs/day : pounds per day

Appendix E **Reconstructed MPA Performance Data and TCE Mass Removal Calculations Carrier Air Conditioning Site** Collierville, TN

Deep SVE System (2010–2011)							
Date	Air Flow rate (scfm)	Air Flow Rate (m³/min)	Influent TCE Vapor Concentration (µg/m³)	TCE Mass Removal Rate (lbs/day)	Elapsed Days of Operation	Cumulative TCE Mass Removed (Ibs)	
12/31/2009	600	17	31,500				
1/4/2010							
2/11/2010	-						
3/23/2010	600	17	36,800	1.99	82	162.8	
4/6/2010	-						
5/5/2010							
6/8/2010	600	17	20,400	1.1	77	84.7	
7/6/2010							
8/3/2010							
9/8/2010							
10/20/2010	600	17	21,000	1.13	134	151.8	
11/2/2010	600	17	30,100	1.62	13	21.1	
12/21/2010	600	17	20,100	1.08	49	53.1	
01/10/11							
02/01/11							
03/02/11	600	17	16,100	0.9	71	61.5	
04/02/11							
05/02/11							
06/17/11	600	17	13,200	0.7	107	75.9	
07/06/11							
08/03/11							
09/01/11	600	17	19,200	1.0	76	78.7	
10/12/11							
11/14/11							
12/6/2011	600	17	32,300	1.75	121	214.7	
2010-2011 Total 904.5							

Mass Removal Rate = Flowrate
$$\left(\frac{\text{m}^3}{\text{min}}\right) \times \text{Concentrat ion} \left(\frac{\mu g}{\text{m}^3}\right) \times \left(\frac{1 \text{ lbs}}{453.6 \times 10^6 \text{ } \mu g}\right) \times \left(\frac{1440 \text{ min}}{\text{day}}\right)$$

Notes:

: As presented in the 2006 Annual Progress Report, the TCE mass removal through the Deep SVE system from November 30, 2005 (initial startup) through December 4, 2006 was estimated to be 4,517 lbs.

: Data assumed from previous measurements.

: Not measured or not calculated : standard cubic feet per minute scfm

TCE : trichloroethylene

μg/m³ : micrograms per cubic meter m³/min : cubic meter per minute

: pounds lbs lbs/day : pounds per day

Appendix E Reconstructed MPA Performance Data and TCE Mass Removal Calculations Carrier Air Conditioning Site Collierville, TN

Combined SVE System (2010–2011)						
Date	Air Flow rate (scfm)	Air Flow Rate (m³/min)	Influent TCE Vapor Concentration (µg/m³)	TCE Mass Removal Rate (lbs/day)**	Elapsed Days of Operation	TCE Mass Removed (lbs)**
12/31/2009	858.4	24.31	24,000			
1/4/2010	874.1	24.75	30,500	2.4	4	9.6
2/11/2010	866.1	24.53	30,500	2.4	38	90.2
3/23/2010	903.4	25.58	26,800	2.2	40	87.0
4/6/2010	898.4	25.44	29,700	2.4	14	33.6
5/5/2010	887.3	25.13	23,500	1.9	29	54.3
6/8/2010	884.3	25.04	24,500	1.9	34	66.2
7/6/2010	888.6	25.17	24,500	2.0	28	54.8
8/3/2010	875	24.78	23,500	1.8	28	51.8
9/8/2010	895.3	25.35	20,500	1.6	36	59.4
10/20/2010	867.5	24.57	19,050	1.5	42	62.4
11/2/2010	867.5	24.57	18,100	1.4	13	18.3
12/21/2010	844.9	23.93	21,160	1.6	49	78.8
01/10/11	902.4	25.56	15,130	1.2	20	24.5
02/01/11	878.9	24.89	15,150	1.2	22	26.3
03/02/11	910.6	25.79	15,100	1.2	29	35.8
04/02/11	886.4	25.10	15,200	1.2	31	37.5
05/02/11	888.4	25.16	14,200	1.1	30	34.0
06/17/11	878.1	24.87	1,322	1.0	46	48.0
07/06/11	872.5	24.71	16,200	1.3	19	24.1
08/03/11	862.0	24.41	16,270	1.3	28	35.3
09/01/11	867.6	24.57	16,200	1.3	29	36.6
10/12/11	830.4	23.52	22,480	1.9	41	77.1
11/14/11	840.0	23.79	20,250	1.5	33	50.5
12/6/2011	854.0	24.19	22,260	1.7	47	79.0
2010-2011 Total						1,175.3

Mass Removal Rate = Flowrate
$$\left(\frac{m^3}{min}\right) \times Concentration \left(\frac{\mu g}{m^3}\right) \times \left(\frac{1 \text{ lbs}}{453.6 \times 10^6 \text{ } \mu g}\right) \times \left(\frac{1440 \text{ min}}{\text{day}}\right)$$

Notes:

: As presented in the 2006 Annual Progress Report, the TCE mass removal through the combined Shallow and Deep systems from November 30, 2005 (initial startup) through December 4, 2006 was estimated to be 4,921 lbs.

: The combined (total) SVE system TCE mass removal rates and mass removal from December 4, 2006 through December

2, 2008 were calculated based upon the TCE mass removed from the Shallow and the Deep SVE systems.

: Not measured or not calculated

scfm : standard cubic feet per minute TCE : trichloroethylene

µg/m³ : micrograms per cubic meter m³/min : cubic meter per minute

lbs : pounds lbs/day : pounds per day

APPENDIX F NRS Performance Data and TCE Mass Removal Calculations

Appendix F **NRS Performance Data and TCE Mass Removal Calculations Carrier Air Conditioning Site** Collierville, TN

NRS Performance Data and TCE Mass Removal (2010-2011)								
	Air Velocity	Flow Rate	Concentration	Mass Removal	Elapsed Days of	Total Mass Removed		
Date	(LFM)	(m³/min)	(µg/m³)	(lbs/day)	Operation	(lbs)		
12/15/09	6207	3.84	180	-	-	-		
02/25/10	6381	3.94	140	1.75	72	126		
04/22/10	6210	3.84	200	2.32	56	136		
06/30/10	5419	3.35	240	2.55	69	176		
08/25/10	5777	3.57	320	3.63	56	203		
10/27/10	5810	3.59	300	3.42	63	215		
12/21/10	6705	4.14	310	4.08	55	224		
02/23/11	6401	3.96	210	2.64	64	168		
04/25/11	6343	3.92	120	1.49	61	91		
06/27/11	6641	4.10	66	0.86	63	54		
08/22/11	6107	3.77	160	1.92	56	107		
10/12/11	5810	3.59	190	2.17	51	110		
12/13/11	6811	4.21	150	2.0	62	124		
2010-2011 Total								

Mass Removal Rate = Flowrate
$$\left(\frac{m^3}{min}\right) \times Concentrat ion \left(\frac{\mu g}{m^3}\right) \times \left(\frac{1 \text{ lbs}}{453.6 \times 10^6 \text{ } \mu g}\right) \times \left(\frac{1440 \text{ } min}{\text{ day}}\right)$$

Notes:

: As presented in the 2006 Annual Progress Report, the TCE mass removal through the NRS from 1989 (initial startup)

through December 6, 2006 was estimated to be 14,014 lbs.

: Not measured or not calculated

LFM : Linear Feet per minute $\mu g/m^3$: micrograms per cubic meter

: pounds

lbs/day : pounds per day : cubic meter per minute : Trichloroethylene m³/min TCE NRS : North Remediation System